

TENNESSEE RIVER BASIN

03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN

LOCATION.--Lat 35°35'04", long 86°35'47", Bedford County, Hydrologic Unit 06040002, on left bank 25 ft downstream from State Highway 270 bridge, 1.2 mi downstream from Weakly Creek, 0.8 mi northwest of Poplins Crossroads, and at mile 3.4.

DRAINAGE AREA.--71.9 mi².

PERIOD OF RECORD.--April 1994 to April 1995, October 1998 to current year.

GAGE.--Data logger. Elevation of gage is 662 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Nov 24	0800	1,780	9.39		Dec 23	0700	2,260	10.22
	Dec 1	0115	*3,850	*12.23		Jan 8	0230	2,330	10.32
	Dec 7	1230	3,170	11.44		Feb 20	2100	1,690	9.21
	Dec 9	1730	3,200	11.48		Feb 21	1430	1,830	9.48

Minimum discharge, 0.02 ft³/s, Aug. 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	24	1,890	38	93	86	81	74	2.4	1.2	0.83	6.0
2	3.5	20	289	35	209	63	176	46	5.0	0.86	0.67	3.4
3	3.0	18	172	33	394	55	82	35	6.4	0.67	0.45	2.1
4	2.4	68	115	31	e420	49	60	28	5.2	0.54	0.33	1.9
5	2.1	50	90	29	e290	45	48	23	4.1	0.64	0.24	1.4
6	1.8	37	847	52	e150	39	118	20	3.1	0.83	0.18	0.97
7	1.6	30	2,490	611	83	36	811	17	2.7	4.3	0.22	0.65
8	1.3	24	489	1,370	196	42	471	14	2.3	2.1	0.22	0.48
9	1.3	19	1,950	292	133	37	211	12	4.6	1.7	e0.21	0.38
10	1.2	16	661	187	104	33	120	10	8.6	1.1	e0.20	0.30
11	1.1	17	258	302	84	30	86	8.7	7.2	1.4	0.16	0.24
12	2.1	260	167	337	74	27	71	7.3	7.5	1.6	0.17	0.21
13	4.9	108	116	583	308	25	61	6.4	13	1.2	0.10	0.18
14	4.9	64	84	495	523	23	63	7.3	8.7	1.4	e0.10	0.13
15	4.9	48	66	212	207	21	46	12	5.6	1.4	e0.15	0.16
16	4.4	39	56	153	143	22	37	10	3.9	1.2	e0.14	1.4
17	3.9	33	49	115	108	27	32	7.0	2.9	1.0	e0.12	3.5
18	3.5	29	43	94	87	27	28	5.6	2.3	4.6	e0.14	1.9
19	239	26	38	85	75	24	24	4.9	1.8	31	0.10	1.1
20	136	24	31	78	568	21	21	5.0	1.6	35	0.09	0.76
21	71	22	29	71	1,390	19	20	6.3	1.3	26	0.08	0.55
22	50	19	92	62	404	17	190	5.0	1.1	15	0.07	0.47
23	40	48	1,460	53	185	19	95	4.1	0.93	8.1	0.06	0.37
24	60	1,140	222	48	134	18	52	3.6	0.78	4.9	0.05	0.33
25	47	264	123	46	99	16	40	3.1	0.65	3.3	0.04	0.38
26	36	131	91	44	79	15	33	2.7	0.64	2.2	0.04	6.6
27	34	96	72	40	68	16	31	2.4	0.63	1.6	0.10	4.6
28	38	120	60	36	84	95	31	2.0	0.77	2.7	0.18	2.7
29	39	79	56	189	---	68	45	1.8	1.1	2.0	0.26	2.1
30	35	1,700	51	193	---	46	145	1.8	0.90	1.2	5.8	1.8
31	29	---	44	117	---	48	---	1.8	---	0.77	7.9	---
TOTAL	906.1	4,573	12,201	6,031	6,692	1,109	3,329	387.8	107.70	161.51	19.40	47.06
MEAN	29.2	152	394	195	239	35.8	111	12.5	3.59	5.21	0.63	1.57
MAX	239	1,700	2,490	1,370	1,390	95	811	74	13	35	7.9	6.6
MIN	1.1	16	29	29	68	15	20	1.8	0.63	0.54	0.04	0.13
CFSM	0.41	2.12	5.47	2.71	3.32	0.50	1.54	0.17	0.05	0.07	0.01	0.02
IN.	0.47	2.37	6.31	3.12	3.46	0.57	1.72	0.20	0.06	0.08	0.01	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	19.9	74.3	187	206	219	179	131	86.6	30.0	21.6	17.9	18.4
MAX	51.4	183	394	472	433	386	369	376	145	84.6	94.2	96.8
(WY)	(1995)	(2003)	(2005)	(1999)	(2001)	(2002)	(1994)	(2003)	(2004)	(2004)	(2001)	(2004)
MIN	0.00	0.50	25.6	38.3	65.6	35.8	29.7	3.89	2.30	0.61	0.02	0.00
(WY)	(2000)	(1999)	(2000)	(2000)	(2002)	(2005)	(1999)	(2001)	(2002)	(2000)	(1999)	(1999)

03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1994 - 2005
ANNUAL TOTAL	48,295.0	35,564.57	98.1
ANNUAL MEAN	132	97.4	127
HIGHEST ANNUAL MEAN			2003
LOWEST ANNUAL MEAN			2000
HIGHEST DAILY MEAN	3,690	Feb 6	4,700
LOWEST DAILY MEAN	1.1	Oct 11	0.00
ANNUAL SEVEN-DAY MINIMUM	1.5	Oct 5	0.06
MAXIMUM PEAK FLOW			3,850
MAXIMUM PEAK STAGE			Dec 1
INSTANTANEOUS LOW FLOW			12.23
ANNUAL RUNOFF (CFSM)	1.84	1.36	15.67
ANNUAL RUNOFF (INCHES)	24.99	18.40	Jan 23, 1999
10 PERCENT EXCEEDS	237	200	Aug 4, 1999
50 PERCENT EXCEEDS	34	23	0.00
90 PERCENT EXCEEDS	3.5	0.42	Aug 4, 1999

a Also occurred many days most years.

e Estimated

